



SAFETY DATA SHEET

Creation Date 22-Oct-2010

Revision Date 01-Oct-2009

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: (3,3,3-Trifluoropropyl)chlorodimethylsilane
Cat No. 432210000; 432210050; 432210250

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Flammable liquids.	Category 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s)

C - Corrosive
F - Highly flammable

R -phrase(s)

R11 - Highly flammable
R14 - Reacts violently with water
R29 - Contact with water liberates toxic gas
R34 - Causes burns

(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

2. HAZARDS IDENTIFICATION

Label Elements



Signal Word

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage
 H225 - Highly flammable liquid and vapor
 EUH029 - Contact with water liberates toxic gas
 EUH014 - Reacts violently with water

Precautionary Statements - EU (§28, 1272/2008)

P402 + P404 - Store in a dry place. Store in a closed container
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P240 - Ground/Bond container and receiving equipment
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
(3,3,3-Trifluoropropyl)chlorodimethylsilane 1481-41-0	EEC No. 216-039-3	>95	1481-41-0	F; R11 C; R34 R14, R29	Flam. Liq. 2 (H225) Skin Corr. 1B (H314) Eye Dam. 1 (H318) (EUH014) (EUH029)	-

(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Immediate medical attention is required

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes Remove and wash
contaminated clothing before re-use Immediate medical attention is required

Ingestion

Do not induce vomiting Clean mouth with water Never give anything by mouth to an
unconscious person Call a physician or Poison Control Center immediately

Inhalation

Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation
if victim ingested or inhaled the substance; induce artificial respiration with a respiratory
medical device Immediate medical attention is required

Notes to Physician

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use: alcohol-resistant foam Carbon dioxide (CO₂) Dry chemical Use water spray to cool unopened containers

Extinguishing media which must not be used for safety reasons

Contact with water liberates toxic gas

Special hazards arising from the substance or mixture

Flammable Thermal decomposition can lead to release of irritating gases and vapors Reacts violently with water Contact with water
liberates toxic gas

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective
gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all
sources of ignition. Take precautionary measures against static discharges.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

Soak up with inert absorbent material. Keep in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Use only under a chemical fume hood Wear personal protective equipment Do not get in eyes, on skin, or on clothing Keep away from open flames, hot surfaces and sources of ignition Use only non-sparking tools Use explosion-proof equipment Do not breathe vapors/dust Do not ingest Take precautionary measures against static discharges

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place Corrosives area Flammables area Keep away from heat and sources of ignition Keep away from water

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls

Engineering Measures

Use only under a chemical fume hood Ensure that eyewash stations and safety showers are close to the workstation location Use explosion-proof electrical/ventilating/lighting/equipment

Personal protective equipment

Eye Protection

Safety glasses with side-shields

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Appearance

Colorless to straw yellow liquid

odor

Acrid

pH

No information available.

Boiling Point/Range

118°C / 244.4°F @ 760 mmHg

Melting Point/Range

No information available.

Flash Point

20°C / 68°F

(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

9. PHYSICAL AND CHEMICAL PROPERTIES

Autoignition Temperature	No information available.
Water Solubility	Reacts with water
Density	1.11
Molecular Formula	C5 H10 Cl F3 Si
Molecular Weight	190.67

10. STABILITY AND REACTIVITY**Reactivity****Chemical Stability**

Stable under recommended storage conditions. Reacts violently with water.

Possibility of Hazardous Reactions**Hazardous Polymerization**

Hazardous polymerization does not occur.

Hazardous Reactions .

Contact with water liberates toxic gas.

Conditions to Avoid

Incompatible products, Excess heat, Keep away from open flames, hot surfaces and sources of ignition, Protect from water.

Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition ProductsThermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Silicon dioxide. Hydrogen chloride gas.**11. TOXICOLOGICAL INFORMATION****Information on Toxicological Effects****Acute Toxicity****Product Information**

No acute toxicity information is available for this product

Component Information**Chronic Toxicity****Carcinogenicity**

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

Skin Respiratory system Eyes Gastrointestinal tract (GI)

Endocrine Disruptor Information

None known

(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

11. TOXICOLOGICAL INFORMATION**12. ECOLOGICAL INFORMATION****Toxicity****Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment**Other adverse effects**

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION**IMDG/IMO**

UN-No	UN2986
Hazard Class	8
Subsidiary Hazard Class	3, +
Packing Group	II
Proper Shipping Name	Chlorosilanes, corrosive, flammable, n.o.s

ADR

UN-No	UN2986
Hazard Class	8
Subsidiary Class	3
Packing Group	II
Proper Shipping Name	Chlorosilanes, corrosive, flammable, n.o.s

(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

14. TRANSPORT INFORMATION
IATA

UN-No	UN2986
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II
Proper Shipping Name	Chlorosilanes, corrosive, flammable, n.o.s

15. REGULATORY INFORMATION
Safety, health and environmental regulations/legislation specific for the substance or mixture
International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
(3,3,3-Trifluoropropyl)chlorodimethylsilane	216-039-3	-		X	-	X	X	X	-	X	-

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory Lists

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment
16. OTHER INFORMATION
Text of R phrases mentioned in Section 2-3

R11 - Highly flammable

R14 - Reacts violently with water

R29 - Contact with water liberates toxic gas

R34 - Causes burns

Revision Date 01-Oct-2009

Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006



(3,3,3-Trifluoropropyl)chlorodimethylsilane

Revision Date 01-Oct-2009

16. OTHER INFORMATION

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet